(19)	Europäisches Patentamt European Patent Office Office européen des brevets	<sup>(1)</sup> Publication number: 0 441 012 A3
(12)	EUROPEAN PAT	ENT APPLICATION
21	Application number: 90250343.2	₅1 Int. Cl. <sup>5</sup> : <b>B29B</b> 17/02, B07C 5/342
22	Date of filing: <b>28.12.90</b>	
84	Priority: <b>09.02.90 US 477606</b> Date of publication of application: <b>14.08.91 Bulletin 91/33</b> Designated Contracting States: <b>AT BE CH DE DK ES FR GB GR IT LI LU NL SE</b> Date of deferred publication of the search report: <b>22.04.92 Bulletin 92/17</b>	<ul> <li>(7) Applicant: HOOVER UNIVERSAL, INC. 825, Victors Way Ann Arbor Michigan 48104(US)</li> <li>(72) Inventor: Trischan, Glenn 8322 N. 51st Street Brown Deer Wisconsin 53223(US) Inventor: Cartz, Louis 2882 S. 33rd Street Milwaukee Wisconsin 53215(US)</li> </ul>
		<ul> <li>Representative: UEXKÜLL &amp; STOLBERG</li> <li>Patentanwälte</li> <li>Beselerstrasse 4</li> <li>W-2000 Hamburg 52(DE)</li> </ul>

## (54) Method for sorting plastic articles.

(57) A method of sorting a mixed group of plastic articles, such as PET and PVC containers, involves individually subjecting each article to a beam of electromagnetic radiation, and detecting a change in the intensity of the beam. The measured intensity varies in a manner indicative of the crystallinity of the plastic from which the article is made, and hence identifies the type of plastic the article is made of. Each article is then sent to one of a plurality of destinations, such as recycling collection bins, according to the type of plastic. The method is particularly useful in separating PET and PVC used in containers, since these plastics are very difficult to sort by conventional methods.





## EUROPEAN SEARCH REPORT

## EP 90 25 0343

D	OCUMENTS CONSI				
Category		h indication, where appropriate, vant passages		elevant o claim	CLASSIFICATION OF THE APPLICATION (Int. CI.5)
P,X	EP-A-0 361 430 (ENVIRO PORATION) * the whole document *	NMENTAL PRODUCTS CO	R- 1- <sup>-</sup> 18	10,13,	B 29 B 17/02 B 07 C 5/342
D,X	EP-A-0 291 959 (ISTITUT) * the whole document *	) GUIDO DONEGANI S.P.A	.) 14	-17	
A	DE-A-3 520 486 (JOSEF T * the whole document *	THOR)		10, -20	
Α	US-A-3 747 755 (STEPHE * column 1, line 12 - column * column 4, line 15 - line 50 * column 6, line 60 - line 64 * claims 1-16; figures 1,3 *	2, line 29 *		4,7, -13	
					TECHNICAL FIELDS SEARCHED (Int. CI.5)
					B 29 B
					B 07 C
					G 01 N
	The present search report has t	been drawn up for all claims			
Place of search Date of completion of search			rch		Examiner
	The Hague	24 February 92	24 February 92		MOLTO PINOL F.J.
CATEGORY OF CITED DOCUMENTS       E : earlier patent document, but published on, or a the filing date         Y: particularly relevant if taken alone       the filing date         Y: particularly relevant if combined with another document of the same catagory       D: document cited in the application         A: technological background       L: document cited for other reasons         Y: intermediate document       &: member of the same patent family, correspond document         T: theory or principle underlying the invention       D: document					